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human CAP-1

60
MLSHNTMKQRKQQAATAIMKEVHGNDVDGMDLGKKVSIIPRDIMLEELSHLSNRGARLFKM
120
RQRRSDKYTFENFQYQSRAQINHSIAMQNGKVDGSNLEGGSQQAPLTTPNTTPDPRSPNP
180
DNIAPGYSGPLKEIPPEKFNTTAVPKYYQSPWEQAISNDPELLEALYPKLFKPEGKAELP
240
DYRSFNRVATPFGGFEEKASRMVKFKVPDFELLILLTDPREMSFVNPLSGRRSFNRTPKGWI
SENIPVITTEPTDDTTVPESDDL

FIG. 1A

mouse CAP-1

60
MLSHSAMVKQRKQQAASAITKEIHGHDVDGMDLGKKVSIIPRDIMIEELSHFSNRGARLFKM
120
RQRRSDKYTFENFQYESRAQINHNHNIAMQNGRVDGSNLEGGSQQGPSTTPNTTPDPRSPNP
180
ENIAPGYSGPLKEIPPERFNTTAVPKYYRSPWEQAIGSDPELLEALYPKLFKPEGKAELR
240
DYRSFNRVATPFGGFEEKASKMVKFKVPDFELLILLTDPRELFANPLSGRRRCFNRAFKGWV
SENIPVVITTEPTEDATVPESDDL

FIG. 1B

human CAP-2

60
MPLSGTPAPNKKRKSSKLIIMELTGGGQESSGLNLGKKISVPRDVMLEELSLLTNRGSKMF
120
KLRQMRVEKFIYENHPDVFSDDSSMDHFQKFLPTVGGQLGTAGQGFSSKSNRGGSSQAGG
180
SGSAGQYGSDQQHHLGSGGAGGTGGPAGQAGRGGAGTAGVGETSGDQAGGEGKHITV
240
FKTYISPWERAMGVDPQQKMEIGIDLLAYGAKAELPKYKSFNRTAMPYGGYEKASKRMTF
QMPKFDLGPLLSEPLVLYNQNLNRPFSFNRTPIPWLSSGEPVDYNVDIGIPLDGETEEL

FIG. 1C

mouse CAP-2

60
MPLSGTPAPNKKRKSSKLIIMELTGGGRESSGLNLGKKISVPRDVMLEELSLLTNRGSKMF
120
KLRQMRVEKFIYENHPDVFSDDSSMDHFQKFLPTVGGQLETAGQGFSSYKGSQAGSSG
180
SAGQYGSDRHHQQSGFGAGSGGPGGQAGGGGAPGTVGLGEPGSDQAGDGKHVTVFKT
240
YISPWDRAMGVDPQQKVELGIDLLAYGAKAELPKYKSFNRTAMPYGGYEKASKRMTFQMP
KFDLGPLLSEPLVLYNQNLNRPFSFNRTPIPWLSSGHEVDYNVDVIGIPLDGETEEL

FIG. 1D

MCAP-1	M L S H S	M V	Q Q A S A I T K E I H	H D V D	M D	V	I
MCAP-2	M P L S G T P	P N	S S K L I M E L T G G	R E S S	L N	I	V
MCAP-1	H F S	K N G	A R L	M	R	S D	Y T F
MCAP-2	L L T	S K M	L	M	R	V E	F I Y
MCAP-1	Y S R A	I N H N I A M Q N	R V D	G Q A	G S S		
MCAP-2	D S S M D H F Q K F L P T V G G	L T A G	G F S Y G K G S S				
MCAP-1	P S T P P N T P D P R S P P N P E N I	A P O	Y S	G P L			
MCAP-2	S A Q Y G S D R H	S G F G A G G S G G P G G Q A G G G	A P O	T V	G L G		
MCAP-1	K E I P P E R E N T	T A P Y R	E Q I	S	E L L E A	Y	
MCAP-2	E P G S G D Q A G G D G K H V T	T I	D R M	V	Q Q K V E	G	
MCAP-1	P X F X P E G	R D	P Y T	M	V X	K V	
MCAP-2	I D L A Y G A	P X	T	R M T	Q M		
MCAP-1	D E L L T	T D P R F L A F A N P	G R C	A K C	V	S E N I P	V
MCAP-2	K D G P	L S E P L V L Y N Q N	N P S	T I P	L S G E H	D	
MCAP-1	I T T E P T E D A T V P	S D D					
MCAP-2	Y N V D - V G I P L D G	T E E					

FIG. 1E

[illegible]

FIG. 2A

mouse CAP-1

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10      20      30      40      50      60      70      80      90      100
ATTCCGCACATGGGATCCAGGGACCATGCCGTTCCAGGTTCAAGGATAAAACCAATGGGCCATAGTGGCGTCATATCCACCTTCAGTGCCTTCTCCA
TAAGCCGCTGACCTAGCTCCCTGGTACGGCAAGGTCCAAGTTCTATTTTGGGTAACCGGTATCACGGCAGTATAAGGTGGAGTCAACGGAAGGAGGT

110     120     130     140     150     160     170     180     190     200
CAATTGGGATTACCCCTCTCAAAAGCGCACGCTCAACAGCAAGGGAACAAAACTATGCTATCACATAGTCCCATGCTCAAGCAAGGAAACAGCAAG
GTTAACCTTAAGTGGGACGACTTTTCCGCTCCGACTGCTGTTCCCTTGTGTTTTTATACGATAGTGATACACGGTACCACTTCGTTTCTTCTGCTTC

210     220     230     240     250     260     270     280     290     300
CATCAGCCATCAGCAAGGAATCCATGGACATGATGTCACGGCATGGACCTGGCCCAAAAGTTAGCATCCCCAGAGACATCATCATAGAAGAAATTGTC
GTAGTCCGTAGTCTTCTTTAGGTACCTGTACTACAACCTGCCGTACCTGGACCCCTTTTTCAATCGTAGGGGTCTCTGTAGTACTATCTTCTTAACAG

310     320     330     340     350     360     370     380     390     400
CCATTTCTGTAATCGTGGGGCCAGGCTGTTTAAATCGCTCAAGGAAGATCTGACAAATACACCTTTGAAAATTTCCAGTATGAATCTAGAGCACAAATT
GGTAAAGTCATTAGCAACCCCGCTCCGACAAATTTACCGCAGTTTCTTCTAGACTGTTTATGTGGAAACTTTTAAAGGTACACTTAGATCTCGTCTTTAA

410     420     430     440     450     460     470     480     490     500
AATCACAATATCCCATCCAGAAATGGGAGAGTTGATGGAGCAACCTGCAAGGTGGCTCACAGCAAGGCCCTCAACTCCGCCCAACACCCCGCATCCAC
TTAGTCTTATAGCGGTACCTCTTACCTCTCAACTACCTTCTGTTGACCTTCCACCGAGTGTCTTCCGGGGAGTTGAGGCCGGTGTGGGGGTAGGTG

510     520     530     540     550     560     570     580     590     600
GAAGCCCCCAATCCAGAGAACATCCGACCAAGGATTTCTGGACCACTGAAGGAATTCCTCTGAAAGGTTTAAACAGGACGGCCCTTCTTAAGTACTA
CTTCTGGGGGCTTACGCTCTTCTAGCGTGGTCTATAGACCTGCTGACTTCTCTTAAAGGAGGACTTCCAAATTTGTCTGCCGCCAAGGATTATGAT

610     620     630     640     650     660     670     680     690     700
CCGGTCTCCATGGGAGCAGGCGATGGCAGCGATCCCGAGCTCCTGGAGGCTTTGTAACCAAACTTTTCAAGCCTGAAGGAAAGCAGAACTGCCGGAT
GGCCAGAGGTACCTCTGTCGCTAACCGTCCGTAGGCTCGAGGACCTCCGAAACATGGGTTTTGAAAAGTTCCGACTTCTCTTCTGCTTGACCCCTA

710     720     730     740     750     760     770     780     790     800
TACAGGAGCTTTAAACAGGTTTGCCTCATTTGGAGGTTTTGAAAAGCATCAAAATGGTCAAAATCAAAAGTTCCAGATTTTGAATCTACTGCTGCA
ATGTCCTCGAAATTTCTCCAAAGGTGAGGTAAACCTCCAAACCTTTTCTGAGTTTTTACCAGTTTAAAGTTTCAAGGTCTAAACCTTGATGACGAGCT

810     820     830     840     850     860     870     880     890     900
CAGATCCAGGTTCTTGGCTTTGCCAATCTCTTTGGGGCAGACGATCTTTAAAGGGGCGCAAGGGGTGGGTATCTGAGAAATATCCCGTCTGCTAT
GTCTAGGGTCAAGAACCGGAACCGTTAGGAGAAAGCCCTCTGCTACGAAATTTGTCGGCGGTTTCCCAACCATAGACTCTTATAGGGGCAGCACTA

910     920     930     940     950     960     970     980
CACACTGAGCCTACAGACAGCCACTGTACCGGAATCAGATGACCTCTCAGAGGGGAAGCTGGGATCCACAGGAAGTTC
GTGTTGACTCGCATGCTTCTGCGGTGACATGGCCTTAGTCTACTGCACTCTCCCTTGGACCCCTACGGTCTCTTCAG

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FIG. 2B

human CAP-2

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CGGTCACAGC AGCTCAGTCC TCCAAAGCTG CTGGACCCCA GGGAGAGCTG ACCACTGCCG GAGCAGCCCG CTGAATCCAC CTCCACAATG CCGCTCTCAG      100
GAACCCCGGC CCTAATAAG AAGAGGAAT CCAGCAAGCT GATCATGCA CTCACTGGAG GTGCACAGGA GAGCTCAGGC TTCAACCTGG GCAAAAAGAT      200
CAGTGTCCCA AGGGATGTGA TGTGGAGGA ACTGTGCTG CTTACCAACC GGGGCTCCA GATGTTCAA CTGCGGCAGA TGAGGGTGCA GAAGTTTATT      300
TATGAGAAC ACCCTGATGT TTTCTCTGAC AGCTCAATGG ATCACTTCCA GAAGTTCCCT CCACACAGTG GGGCACAGCT GGGCACAGCT GGTCAAGGAT      400
TCTCATAAG CAAGAGCAAC GGCAGAGGCG GCAGCCAGGC AGGGGGCAGT GGCTCTGCCG GACAGTATGG CTCTGATCAG CAGCACCATC TGGGCTCTGG      500
GTCTGGAGCT GGGGGTACAG GTGCTCCCGC GGGCCAGGCT GGCAGAGGAG GAGCTGCTGG CACACAGGGG GTTGGTGAGA CAGGATCAGG AGACCAGGCA      600
GGCGCAGAG GAAACATAT CACTGTGTC AAGACCTATA TTTCCCATG GGAGCGAGCC ATGGGGGTG ACCCCAGCA AAAATGGAA CTGGGCATTG      700
ACCTGCTGCC CTATGGGGCC AAGCTGAAC TTCCCAATA TAAGTCTTC AACAGGACGG CAATGCCCTA TGGTGGATAT GAGAAGGCTT CCAACGGCAT      800
GACCTTCCAG ATGCCCAAGT TTGACCTGGG GCGCTTCTG AGTGAACCC TGCTCTCTA CAACCAAAAC CTCTCCAACA GGCTTCTTT CAATGGAACC      900
CCTATTCCCT GCGTGAGCTC TGGGGAGCCT GTAGACTACA ACGTGGATAT TGGCATCCC TTGGATGGAG AAACAGAGGA GCTGTGAGGT GTTTCCTCCT      1000
CTGATTGCA TCATTCCCG TCTCTGCTC CAATTGGAG A

```

FIG. 2C

mouse CAP-2

```

100 GCGGGGAGA GCGGACCACC AACTGAGCAG CTGGTCAGAT CCACCTCCAC CATGCCACGC TCAGGAACCC CGGCCCCCTAA CAAGAGGAGG AAGTCAAGCA
200 AACTGATTAT GGAGCTCACT GGAGGTGGCC GCGAGAGCTC AGGCCCTGAC CTGGCCAAAG AGATCAGTGT CCCAAGGGAT GTGATGTTGG AGGAGCTGTC
300 CCTTCTTACC AACCGAGGCT CCAAGATGTT CAAGCTACGG CAGATGGGG TGGAGAAATF TATCTATGAG AATCACCCC ATGTTTTCTC TGACAGCTCA
400 ATGGATCACT TCCAGAAGTT TCTTCCACA GTGGGAGGAC AGCTGGAGAC AGCTGGTCAG GGCTTCTCAT ATGGCAAGGG CAGCAGTGA GGCACGGCTG
500 GCAGCAGTGG CTCTGCTGGA CAGTATGGCT CTGACCGTCA TCAGCAGGGC TCTGGGTTG GAGCTGGGG TTCAGGTGT OCTGGGGGCC AGGCTGGTGG
600 AGGAGGAGCT CTTGGCAGAG TAGGGCTTGG AGAGCCCGGA TCAGGTGACC AGGCAGGTGG AGATCGAAAA CATGTCACCTG TGTTCAGAC TTATATTTC
700 CCTGGGATC GGGCCATGGG GGTTCATCCT CAGCAAAAG TGGAACTTGG CATTGAOCTA CTGGCATACG GTGCCAAGC TGAACCTCCC AATATANGT
800 CCTTCACAG GACAGCAATG CCTACGGTG GATATGAGAA GGCTCCAAA CGCATGACCT TCCAGATGCC CAAGTTTGAC CTGGGGCTC TGCTGAGTGA
900 ACCCCTGGTC CTCTACAACC AGAACCTCTC CAACAGGCTT TCTTCAATC GAACCCCTAT TCCTGGTTG AGCTCTGGG AGCATGTAGA CTACAACGTG
1000 GATGTTGGTA TCCCTTGA TGGAGAGACA GAGGAGCTGT GAAGTGCTC CTCTGTCTAT GTGCATCAT TCCCTTCTCT GGTTCGAAT TGAGAGTGA
1100 TGCTGGACAG GATGCCCCAA CTGTAATCC AGTATCTTG TGGCAATGA GGTAAAGGG TGGGGTCCGT TGCTTTCCA CCTTCAGT TCTGCTCG
AAGCATCCCT CTTACCCAGC TCAGAGCTCC CATCTGCTG TACCATAGG AATCTGCTCT TTTATGGAT TTCT

```

FIG. 2D

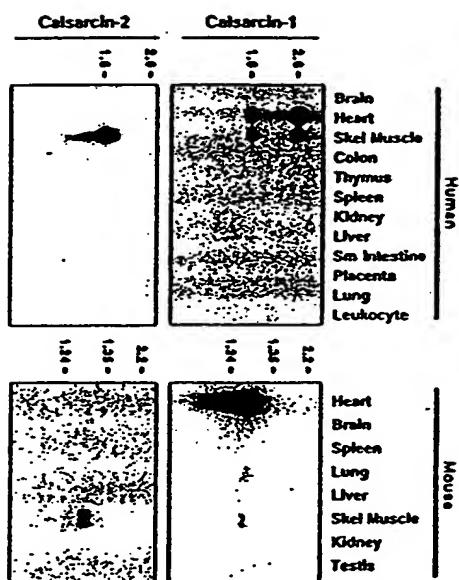


FIG. 3

FIG. 4C

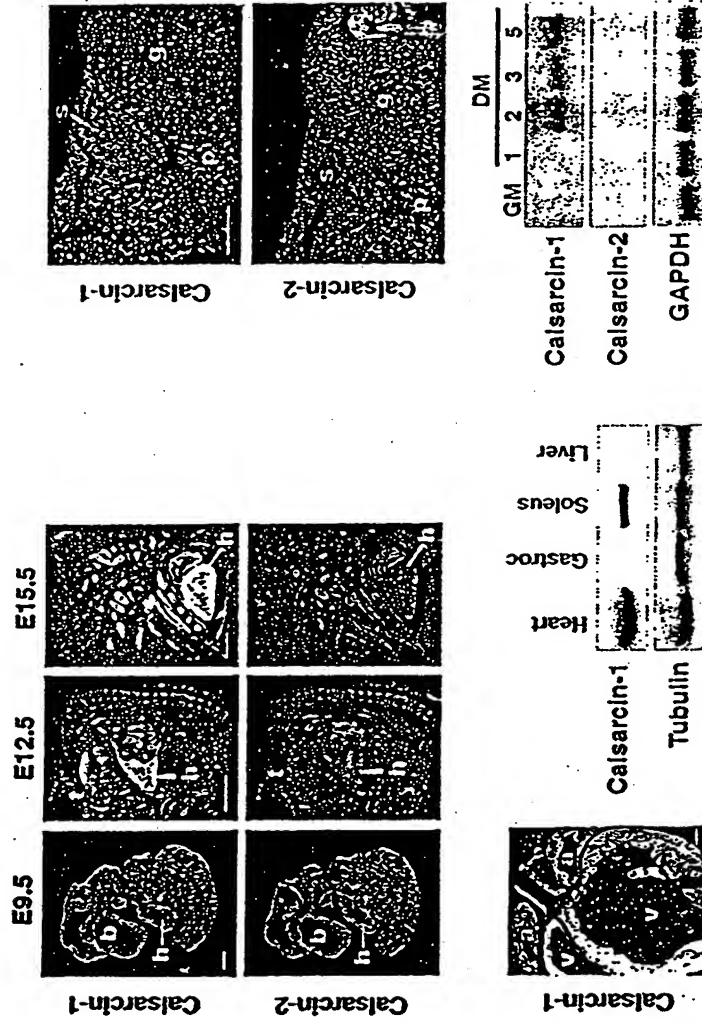


FIG. 4E

FIG. 4A

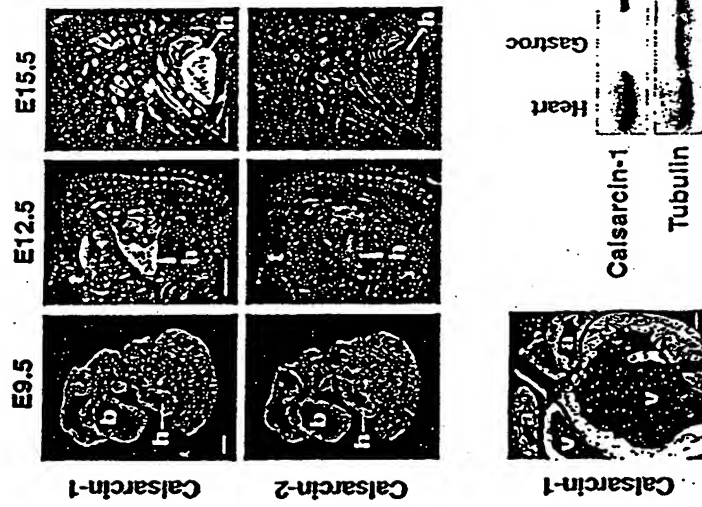


FIG. 4B

FIG. 4D



FIG. 5A



FIG. 5B

FIG. 6A

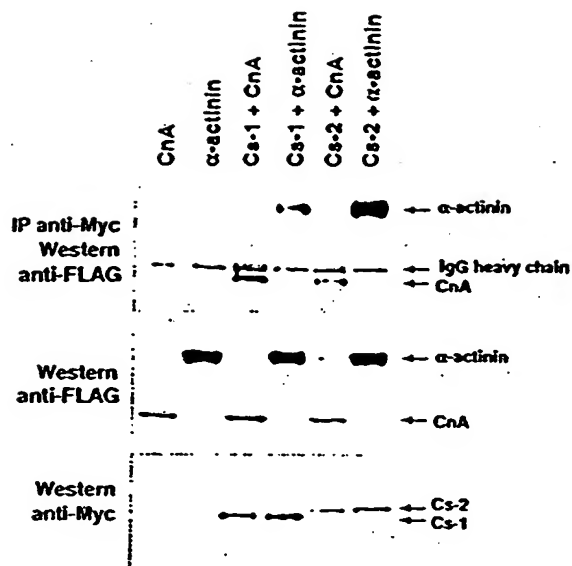


FIG. 6B

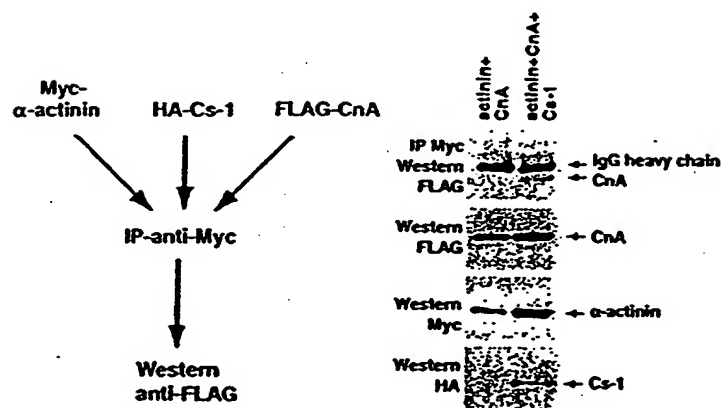
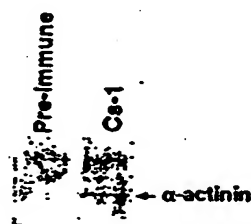


FIG. 6C



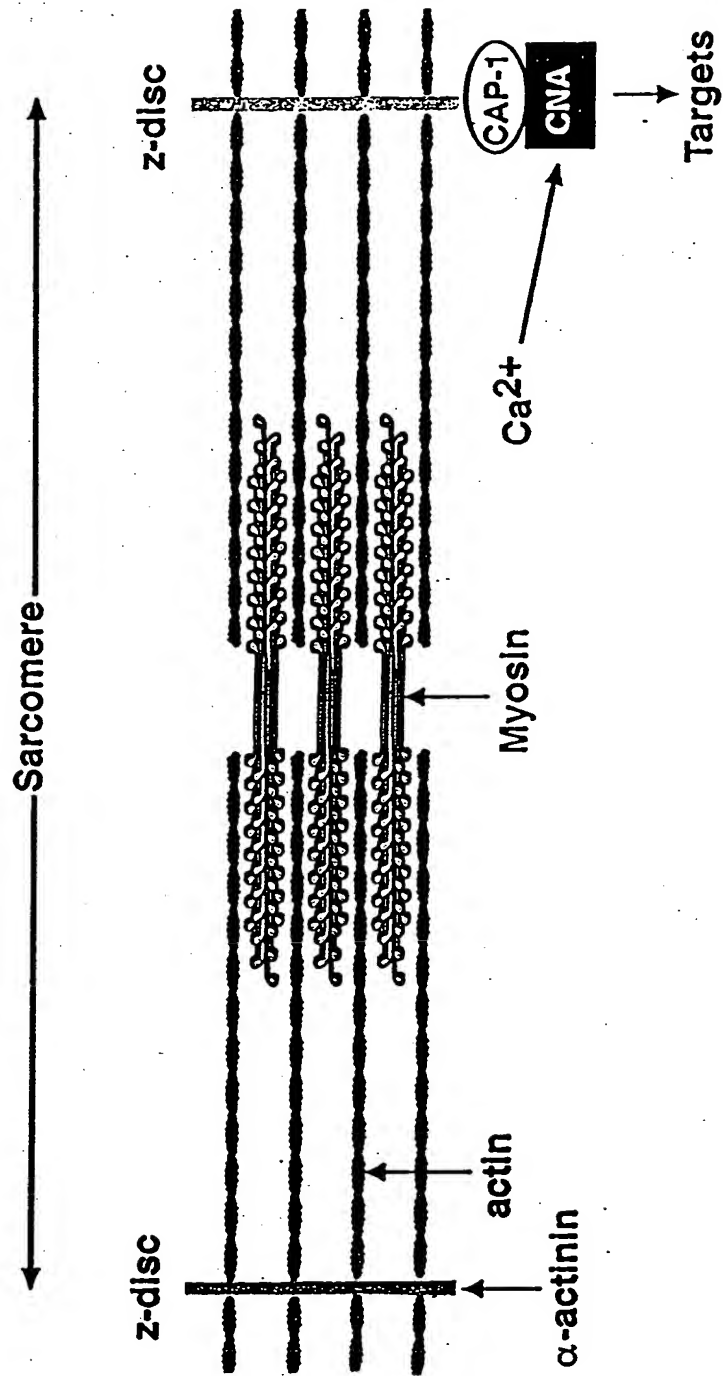


FIG. 8

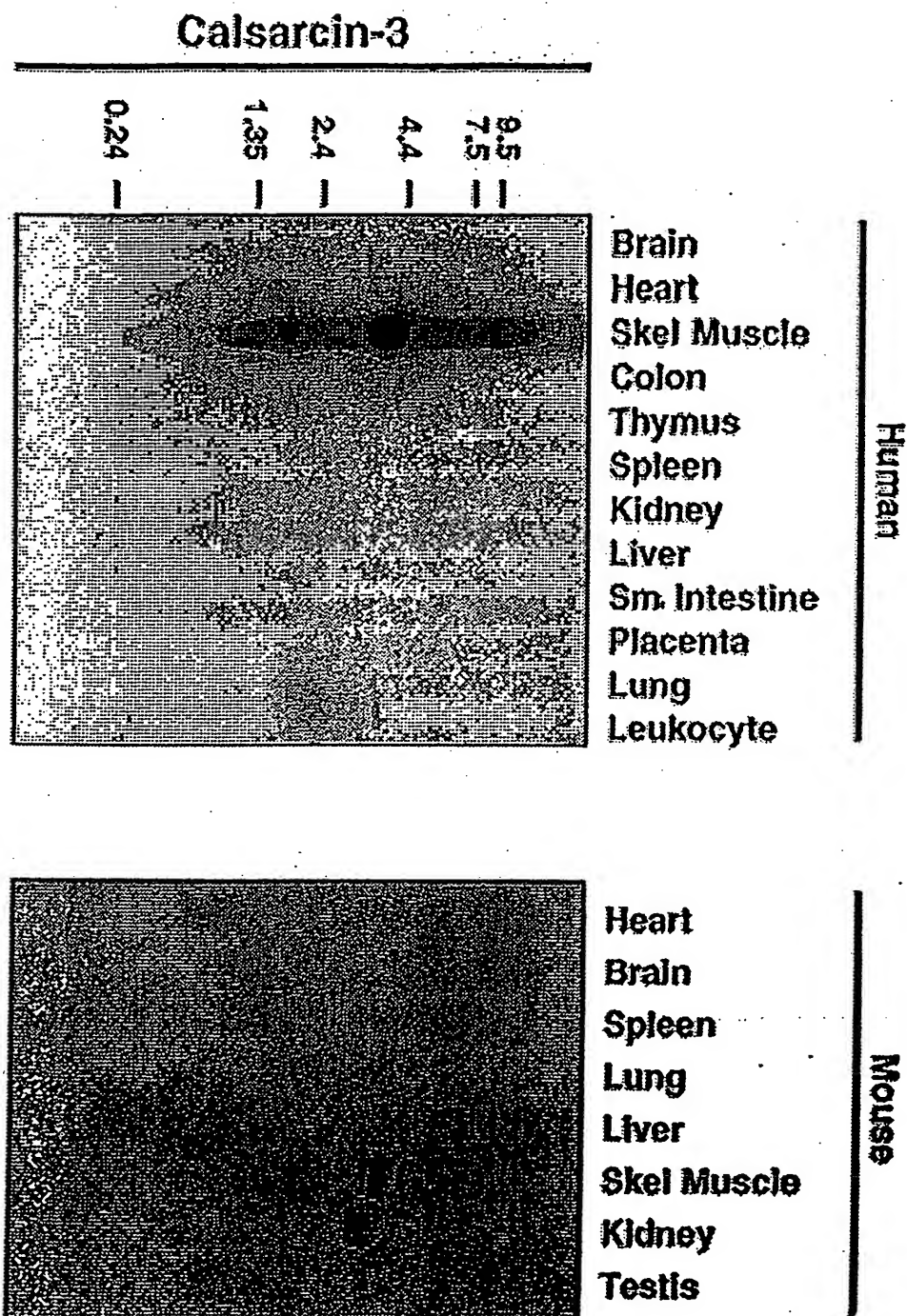


FIG. 9

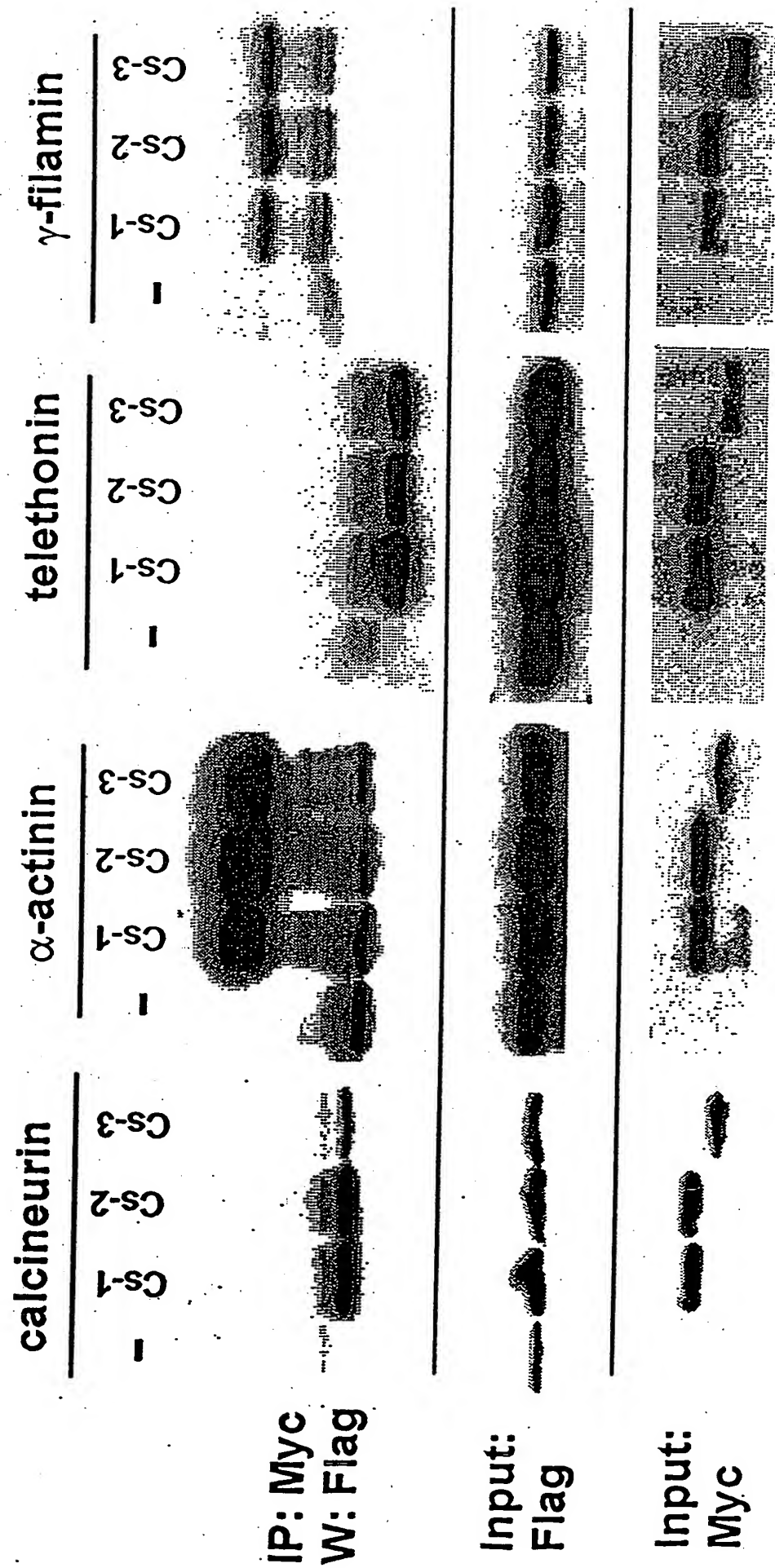


FIG. 10

calsarcin-3

actinin

merge

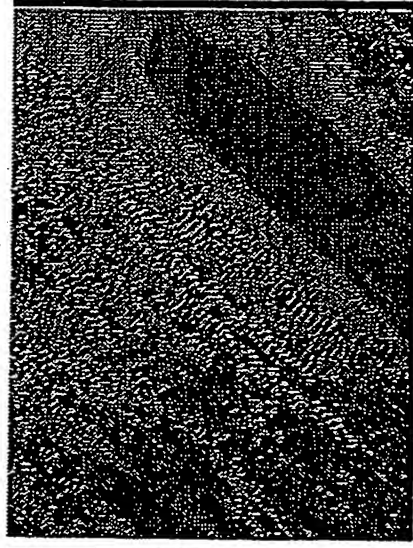
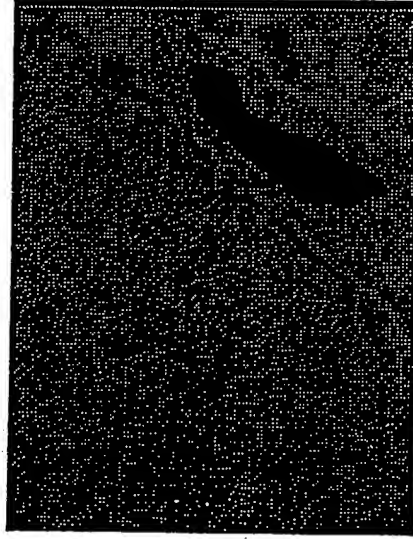
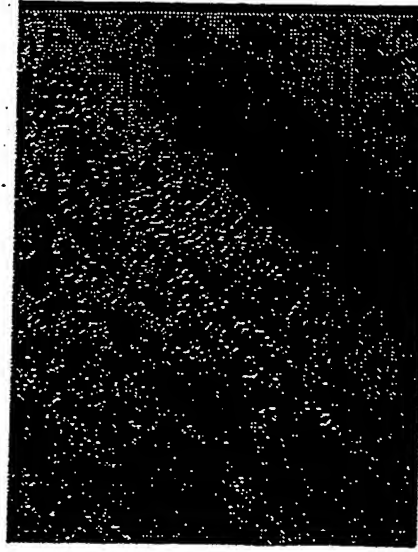
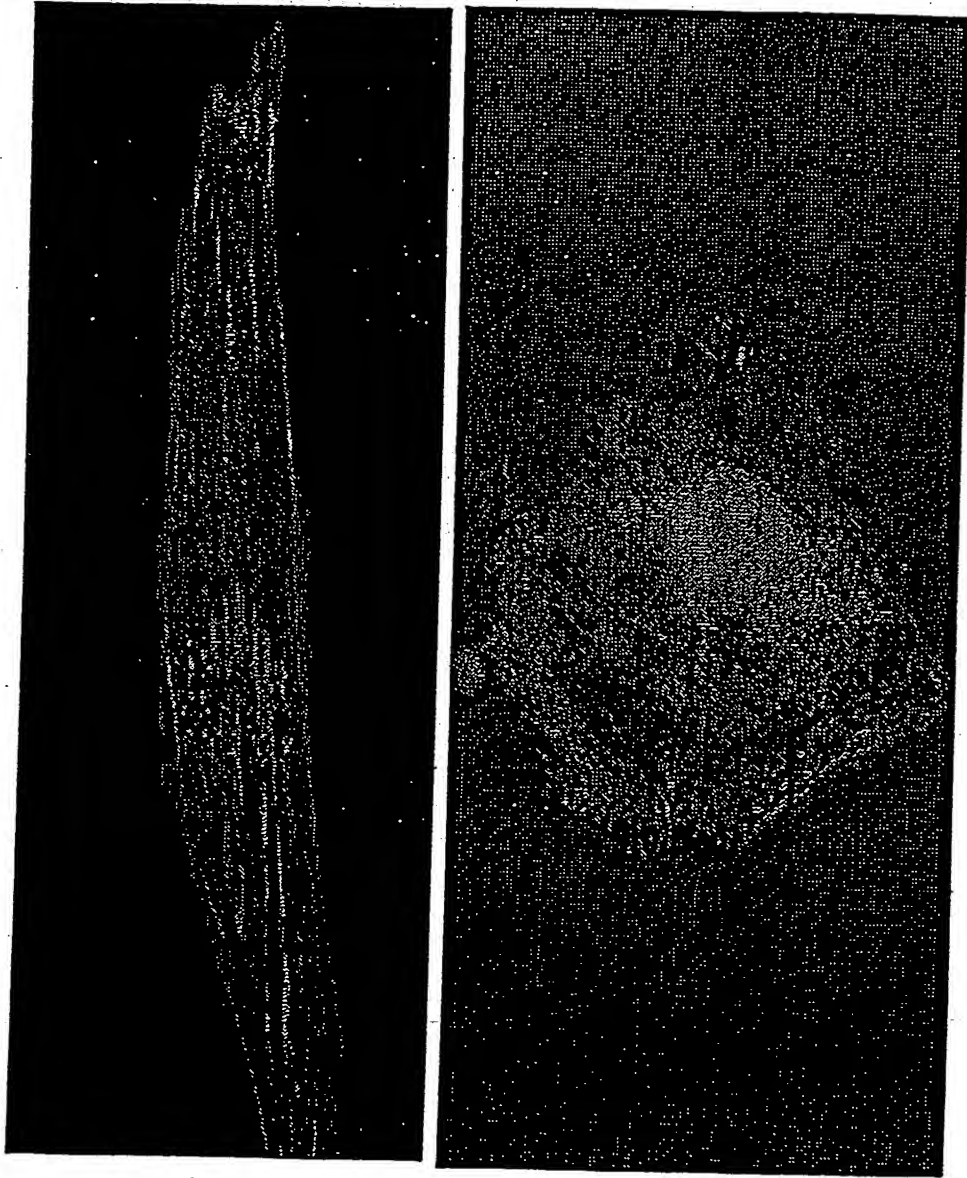


FIG. 11

FIG. 12



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FIG. 13